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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/941,313	08/29/2001	Robert J. Burnham	10541-451	6595		
29074	7590 07/13/2006		EXAMINER			
VISTEON		GENACK, MATTHEW W				
C/O BRINKS PO BOX 1039	HOFER GILSON & LI 95	ART UNIT	PAPER NUMBER			
CHICAGO, I	-	2617				
			DATE MAILED: 07/13/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)				
		09/94	1,313	BURNHAM ET AL.				
	Office Action Summary	Exam	iner	Art Unit				
		1	ew W. Genack	2617				
Period fo	The MAILING DATE of this communi or Reply	cation appears or	the cover sheet with the	correspondence add	lress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm of period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In runication. l) days, a reply within the tutory period will apply a will, by statute, cause the	no event, however, may a reply be to e statutory minimum of thirty (30) da nd will expire SIX (6) MONTHS fror e application to become ABANDON	imely filed ays will be considered timely. the mailing date of this cor ED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	d on <i>24 April 200</i>	6.					
	· ·	b)☐ This action						
3)	·—							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to.							
Applicat	ion Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a)∭ accepted o tion to the drawing the correction is re	(s) be held in abeyance. So quired if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFI				
Priority ι	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice No	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (Pimation Disclosure Statement(s) (PTO-1449 or the No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:		-152)			

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DETAILED ACTION

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kavenik, U.S. Patent No. 4,313,208, in view of Leeb, U.S. Patent No. 6,426,599.

Kavenik discloses an audio entertainment and information system for the cabin of a commercial passenger aircraft (Column 7 Lines 16-20, Column 7 Lines 63-65, Fig. 1). There are several lamps, each connected to the aircraft's AC power source, for the purpose of illuminating the cabin's interior (Column 10 Lines 33-40, Fig. 1). Another component of the entertainment system is the radio frequency audio transmitter (Column 7 Lines 40-42, Column 8 Lines 32-54, Fig. 1). There exists an audio source, which provides audio signals to the transmitter, which is adapted to receive these signals and to transmit them throughout the passenger cabin by feeding an appropriate antenna system (Column 8 Lines 12-19, Column 17 Lines 56-60, Fig. 1, Fig. 10). A wired connection exists between the audio transmitter and the audio source (Column 17 Lines 56-60, Fig. 10). Headsets are provided for the passengers, whereby said

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headsets are directly connected to equipment with the means for receiving the RF signals, controlling the volume, and selecting the audio channel (Column 7 Lines 23-26, Column 9 Lines 42-62, Fig. 3).

Kavenik does not expressly disclose the placement of transmitters in the lamps, said transmitters connectable to the audio source and adaptable to receive information, either analog or digital, from said audio source and to transmit signals containing said information.

Leeb discloses a dual-use electronic transceiver for wireless data networks, whereby information is transmitted by modulating the AC input waveform to a lamp, and said information is detected by a receiver adapted to detect the variations, imperceptible to the human eye, of the light emitted from the lamp (Abstract, Column 1 Lines 22-31, Column 3 Lines 35-64, Figs. 1, 7, and 10). Audio information, either analog or digital, may be sent to the transceiver from sources such as tape recorders, microphones, and stereos (Column 1 Lines 31-35, Column 8 Lines 49-56, Fig. 1). The transmitted information may be analog or digital (Column 2 Lines 36-44). The lamp may also emit electromagnetic radiation in the infrared portion of the spectrum, and a light emitting diode may be used as the lamp (Column 3 Line 65 to Column 4 Line 9).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Kavenik by replacing the lamps and the radio frequency audio transmitter of that invention with dual-use electronic transceivers of the invention of Leeb, and by replacing the radio frequency receivers of the headsets

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of the invention of Kavenik with the receivers, adapted to detect variations in the intensity of light, of the invention of Leeb.

One of ordinary skill in the art would have been motivated to make this modification because of the increased bandwidth, increased efficiency, and the availability of multiple digital data streams via a single lamp that result from the implementation of the dual-use transceiver apparatus, said apparatus lending itself to places that need both illumination and the capability of supporting a high volume of information transfer (Leeb: Column 1 Lines 35-40, Column 2 Lines 44-50).

Response to Arguments

4. Applicant's arguments filed 24 April 206 have been fully considered but they are not persuasive. Regarding Applicant's assertion that no references have been cited which disclose the transmission of signals through lens of a lamp chamber from a transmitter located within said lamp chamber, on Page 3 of the Remarks, Leeb discloses the transmission of audio signals via modulating the AC waveform of a lamp, as outlined above. The filament of the lamp thus constitutes the transmitter. The transparent part of the lamp of the invention of Leeb constitutes a lens as defined by the amended drawings filed 17 October 2005, wherein Fig. 2 illustrates a lens as nothing more than the transparent part of the lamp assembly.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Genack whose telephone number is 571-272-7541. The examiner can normally be reached on FLEX.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUC NGUYEN
PRIMARY EXAMINER

Matthew Genack

Examiner

Art Unit 2645 Marken Genar

7 July 2006